

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633512

Luminaire Tested: GWS-SA2E-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-830-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

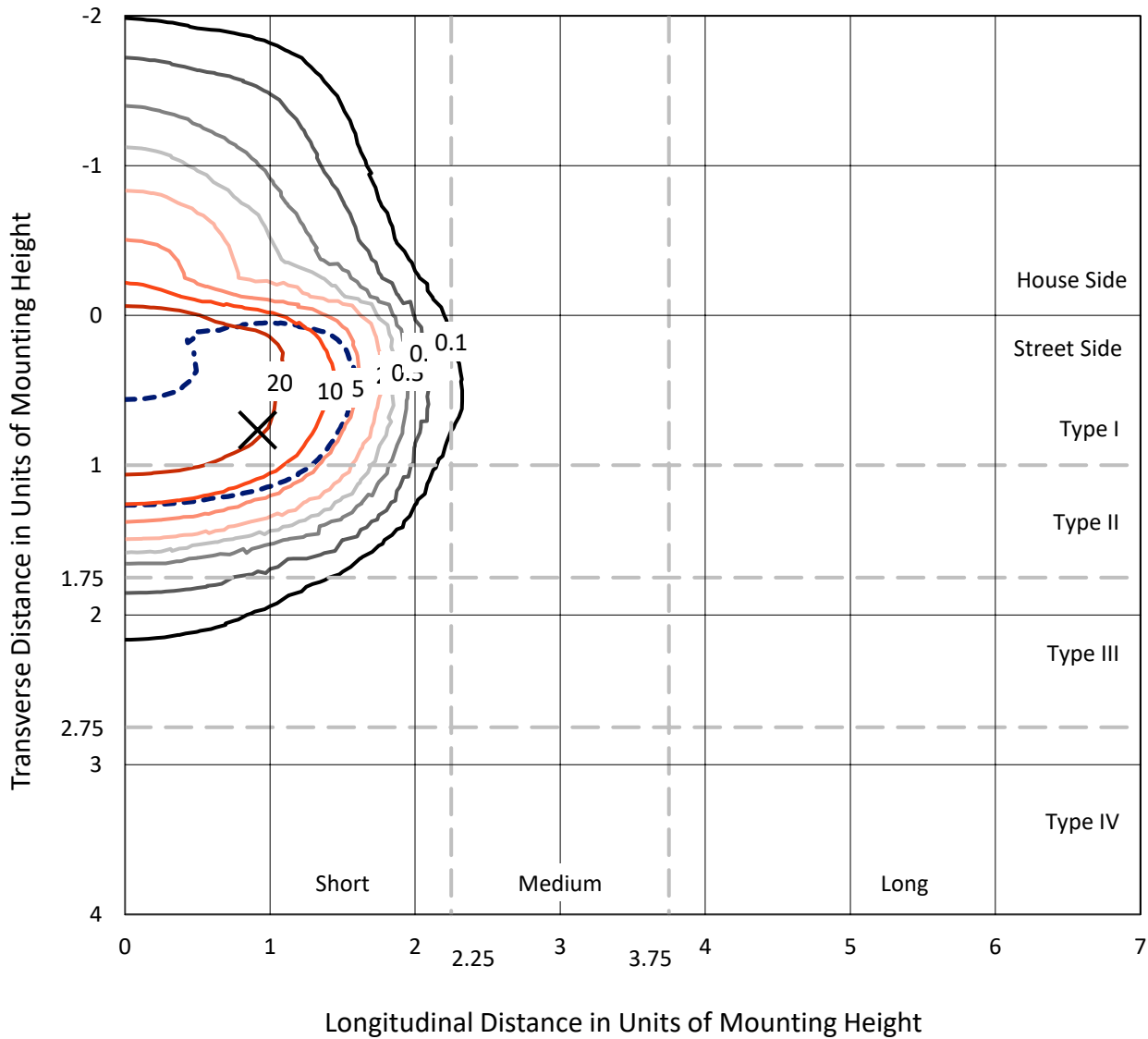
Lumens per Lamp: N/A  
Luminaire Lumens: 8729.7 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

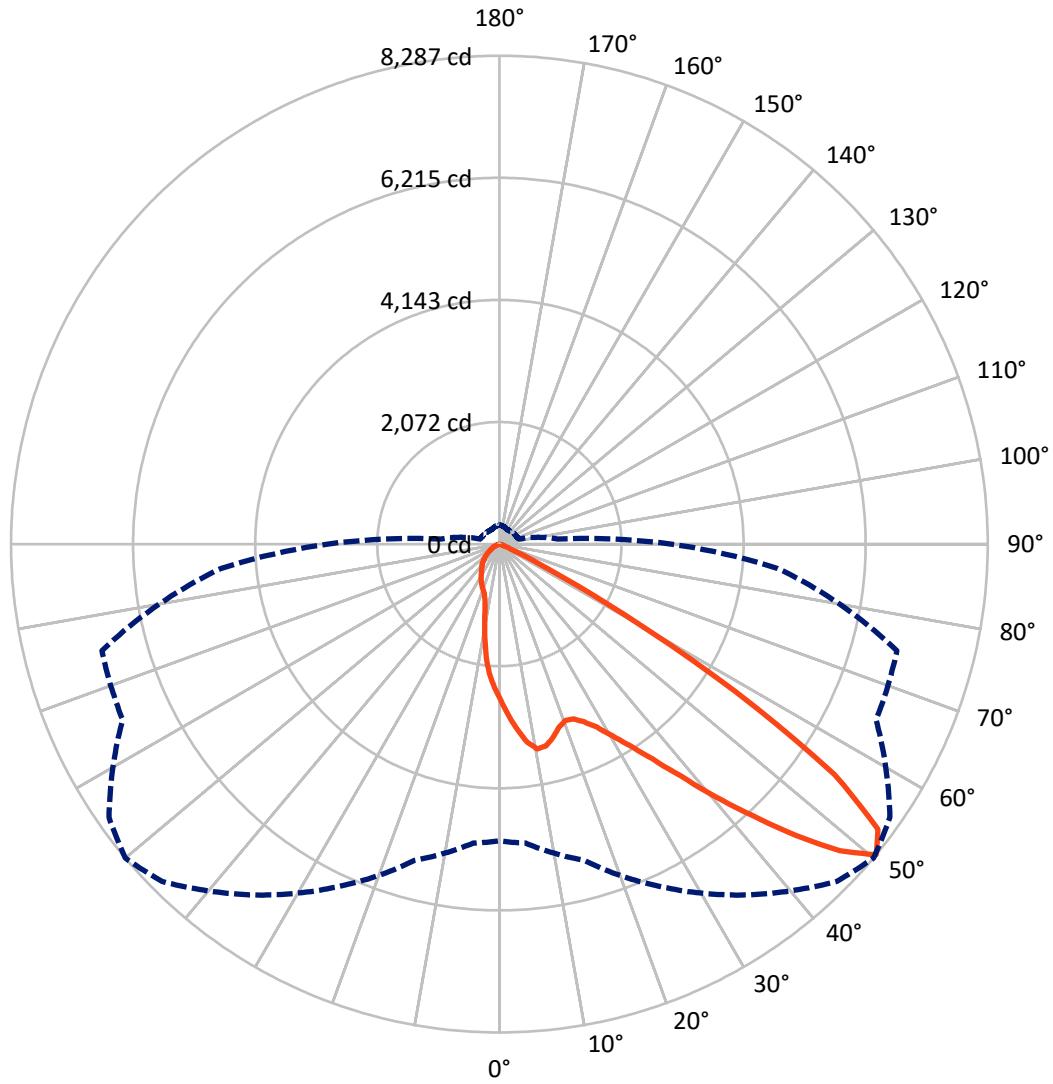
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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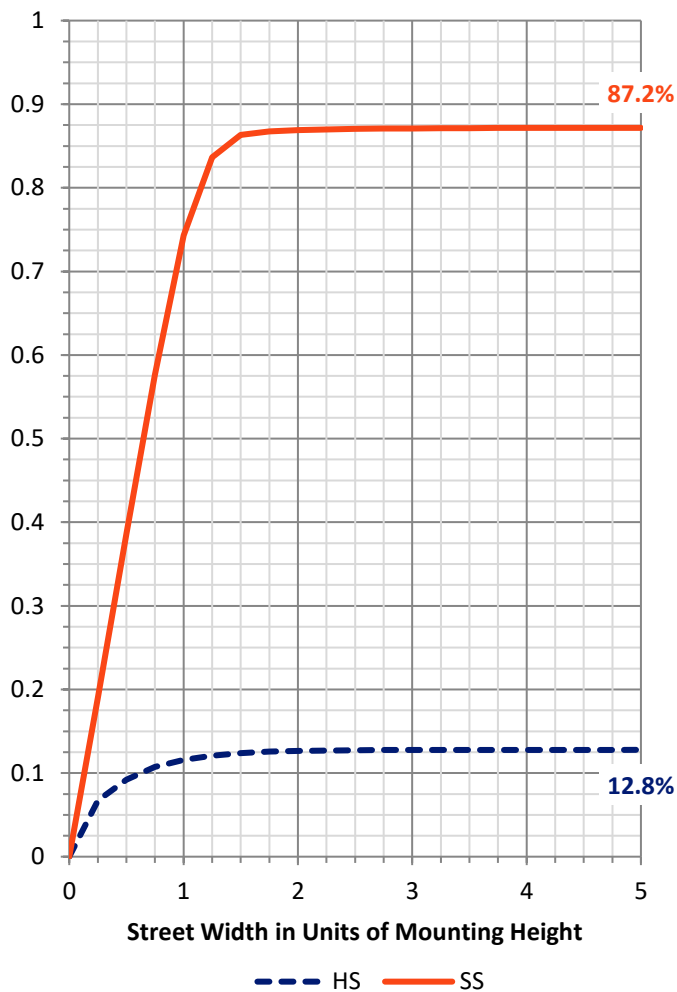
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1121.6	0.0	1121.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	7608.1	0.0	7608.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	8729.7	0.0	8729.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.3	2.8
10°-20°	633.0	7.3
20°-30°	1044.7	12.0
30°-40°	1723.9	19.7
40°-50°	2727.7	31.2
50°-60°	2065.2	23.7
60°-70°	258.5	3.0
70°-80°	29.2	0.3
80°-90°	2.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8729.7	100.0
0°-180°	8729.7	100.0

**Coefficient of Utilization**



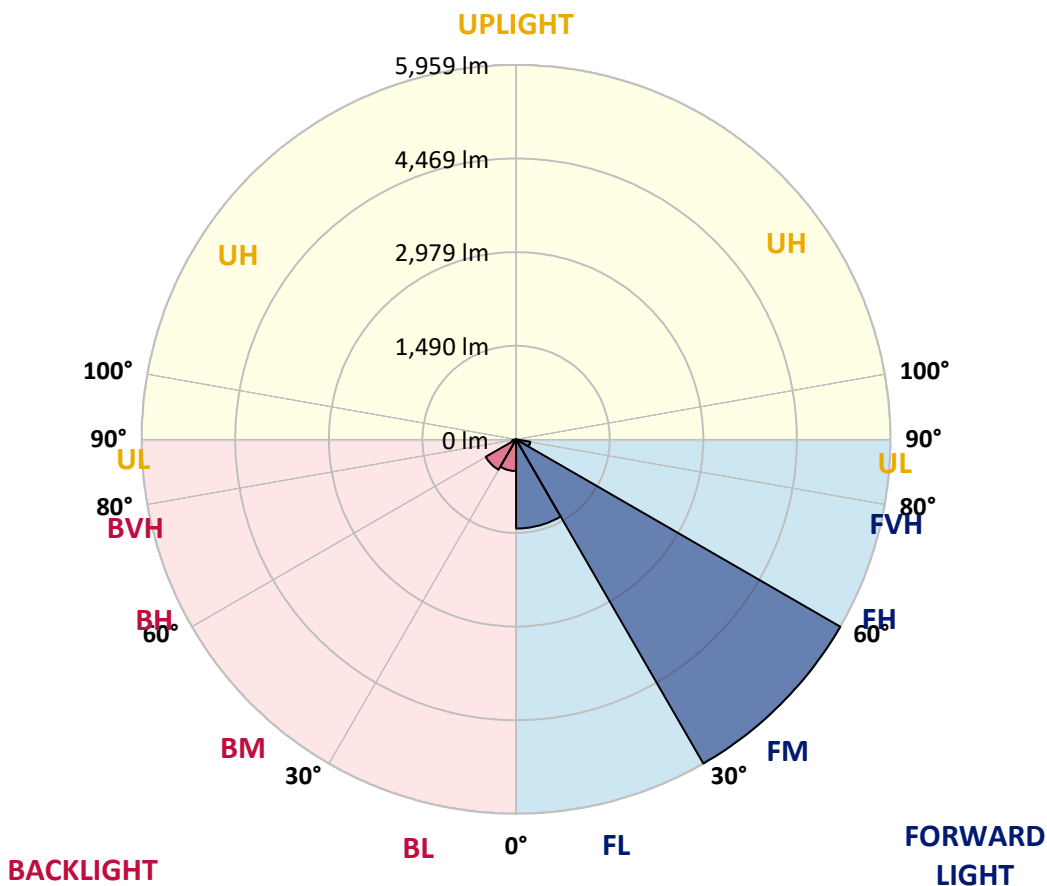
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.6	16.3			
FM (30°-60°)	5958.9	68.3			
FH (60°-80°)	228.5	2.6			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	503.4	5.8	B2/1000		
BM (30°-60°)	557.8	6.4	B1/1000		
BH (60°-80°)	59.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8
2.5°	3013.7	3037.8	3031.1	2999.5	2965.5	2941.4	2904.0	2892.4	2807.6	2748.6	2686.3
5°	3377.6	3385.1	3376.8	3338.6	3278.7	3221.4	3159.9	3124.2	2982.1	2854.1	2723.7
7.5°	3464.8	3455.7	3471.5	3490.6	3482.3	3457.4	3392.6	3353.5	3184.0	2975.4	2777.7
10°	3192.3	3171.5	3230.5	3329.4	3433.3	3550.4	3533.8	3537.1	3380.9	3128.3	2848.3
12.5°	2830.9	2822.6	2866.6	2981.3	3184.8	3450.7	3514.7	3621.9	3561.2	3293.7	2928.9
15°	2672.2	2676.3	2702.9	2775.2	2921.4	3252.1	3405.9	3599.5	3722.4	3454.0	3017.8
17.5°	2696.3	2711.2	2710.4	2734.5	2823.4	3088.5	3267.9	3528.8	3847.1	3638.5	3120.0
20°	2860.0	2874.9	2852.5	2834.2	2864.1	3046.9	3195.6	3457.4	3931.0	3824.6	3228.0
22.5°	3105.1	3122.5	3069.3	3017.0	2997.9	3115.0	3223.1	3428.3	3995.0	3995.0	3324.4
25°	3401.7	3425.8	3343.5	3250.5	3197.3	3258.8	3340.2	3493.9	4060.6	4147.8	3390.1
27.5°	3733.2	3734.1	3663.4	3558.7	3459.0	3466.5	3515.5	3641.8	4132.9	4312.4	3441.6
30°	4106.3	4108.8	4014.9	3889.4	3764.0	3729.9	3771.5	3867.0	4283.3	4519.3	3513.0
32.5°	4588.2	4599.9	4465.3	4280.8	4117.9	4054.0	4078.1	4178.6	4522.6	4778.5	3620.2
35°	5239.7	5252.1	5053.5	4810.1	4550.8	4454.5	4478.5	4579.9	4869.1	5146.6	3791.4
37.5°	5882.8	5899.4	5698.3	5471.5	5115.8	4956.3	4981.2	5077.6	5389.2	5655.1	4065.6
40°	6327.3	6349.7	6287.4	6134.5	5804.7	5595.3	5625.2	5660.1	5961.7	6263.3	4421.2
42.5°	6561.6	6593.2	6619.8	6697.9	6524.2	6348.9	6298.2	6300.7	6544.2	6883.2	4791.0
45°	6575.7	6606.5	6742.7	7044.4	7176.5	7139.9	7047.7	6985.4	6988.7	7296.1	5022.0
47.5°	6118.7	6176.1	6431.2	7021.9	7518.8	7822.1	7775.6	7627.7	7175.6	7323.5	4997.0
50°	5036.1	5092.6	5556.2	6406.2	7269.5	8094.6	8286.6	8088.0	7053.5	6982.0	4740.3
52.5°	3657.6	3663.4	3964.2	4957.1	6259.2	7591.9	8043.9	8024.8	6867.4	6568.3	4389.6
55°	1737.4	1716.6	2054.8	2797.6	4329.0	6140.3	6902.3	7118.3	6603.2	6269.1	4117.9
57.5°	506.0	516.0	666.4	1091.8	2165.3	3924.3	4727.0	5129.1	5420.0	5154.1	3194.0
60°	226.8	227.7	253.4	332.4	721.2	1825.5	2443.7	2941.4	3240.5	3002.9	1584.5
62.5°	164.5	165.3	175.3	187.8	245.1	618.2	916.5	1221.4	1243.9	814.3	401.3
65°	137.1	137.1	138.8	138.8	147.1	221.0	278.4	358.9	302.4	224.3	157.0
67.5°	110.5	111.3	113.0	113.0	110.5	110.5	119.6	131.3	140.4	173.7	144.6
70°	86.4	85.6	85.6	86.4	83.9	71.5	77.3	88.1	96.4	135.4	125.5
72.5°	67.3	68.1	67.3	64.0	58.2	42.4	45.7	57.3	61.5	84.8	84.8
75°	50.7	51.5	48.2	36.6	24.1	13.3	17.4	28.3	35.7	41.5	30.7
77.5°	6.6	6.6	5.0	5.0	4.2	5.0	5.0	6.6	10.0	10.0	7.5
80°	0.8	0.8	0.8	1.7	2.5	3.3	3.3	3.3	3.3	4.2	4.2
82.5°	0.8	0.8	0.8	0.8	2.5	2.5	3.3	3.3	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.8	1.7	2.5	2.5	3.3	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.8	1.7	2.5	2.5	2.5	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8	2644.8
2.5°	2648.9	2600.7	2542.6	2502.7	2446.2	2408.8	2355.6	2319.9	2289.1	2265.0	2278.3
5°	2649.7	2573.3	2454.5	2353.1	2242.6	2141.2	2032.4	1946.8	1869.5	1834.6	1853.7
7.5°	2666.4	2556.7	2374.7	2194.4	1982.5	1773.1	1577.0	1417.5	1338.6	1301.2	1312.8
10°	2698.8	2549.2	2285.8	1986.7	1642.7	1356.9	1166.6	1058.6	1014.5	991.3	995.4
12.5°	2728.7	2544.2	2170.3	1713.3	1296.2	1052.7	953.9	938.9	948.1	948.9	948.1
15°	2769.4	2535.1	2027.4	1432.5	1037.0	909.8	912.3	933.9	955.5	962.2	960.5
17.5°	2812.6	2520.9	1842.9	1163.3	879.9	868.3	897.4	926.5	948.1	951.4	952.2
20°	2857.5	2491.9	1632.7	949.7	806.8	836.7	869.1	890.7	906.5	911.5	913.2
22.5°	2878.2	2430.4	1390.1	796.8	757.8	797.7	821.8	850.0	855.0	836.7	840.0
25°	2867.4	2326.5	1153.3	693.8	708.8	748.6	784.4	770.2	749.5	736.2	740.3
27.5°	2833.4	2188.6	921.5	618.2	656.4	707.1	711.2	695.5	692.1	681.3	684.7
30°	2796.8	2029.9	741.2	557.5	603.2	656.4	643.9	649.8	650.6	638.1	642.3
32.5°	2774.4	1863.7	589.9	516.8	569.2	579.1	604.1	615.7	616.5	587.4	592.4
35°	2781.9	1700.0	499.4	483.6	537.6	535.1	570.0	576.6	528.5	488.6	492.7
37.5°	2842.5	1548.8	447.9	457.8	482.8	501.9	528.5	484.4	473.6	455.3	457.8
40°	2955.5	1420.0	417.1	442.0	445.4	476.1	435.4	441.2	442.0	430.4	432.9
42.5°	3087.6	1312.8	398.8	432.9	424.6	429.6	388.9	400.5	413.0	408.0	408.8
45°	3154.1	1208.1	383.0	401.3	403.8	356.5	347.3	359.8	375.6	378.1	378.9
47.5°	3095.1	1108.4	366.4	355.6	372.2	324.9	314.1	318.2	336.5	346.5	348.1
50°	2914.8	993.8	341.5	314.9	305.8	291.6	281.7	282.5	303.3	320.7	324.1
52.5°	2661.4	874.1	300.8	266.7	245.9	256.7	259.2	254.3	273.4	290.8	294.1
55°	2415.4	724.5	238.5	216.9	197.8	221.0	227.7	221.0	226.8	238.5	239.3
57.5°	1700.9	409.6	182.8	179.5	163.7	189.4	200.2	190.3	180.3	187.8	189.4
60°	788.5	214.4	140.4	140.4	136.3	162.9	181.1	167.0	147.9	151.2	153.7
62.5°	246.8	135.4	103.0	97.2	111.3	138.8	153.7	139.6	117.2	117.2	120.5
65°	139.6	116.3	81.4	74.8	90.6	111.3	120.5	105.5	85.6	83.9	83.9
67.5°	129.6	110.5	72.3	60.7	64.0	71.5	74.8	64.8	59.0	58.2	59.0
70°	107.2	92.2	58.2	41.5	39.1	38.2	39.9	37.4	35.7	36.6	39.1
72.5°	66.5	55.7	36.6	24.9	21.6	20.8	20.8	20.8	19.9	19.9	19.9
75°	24.1	20.8	16.6	12.5	10.8	10.0	10.0	10.8	10.0	9.1	8.3
77.5°	7.5	6.6	6.6	6.6	5.8	5.0	4.2	4.2	3.3	2.5	2.5
80°	4.2	4.2	4.2	4.2	3.3	3.3	2.5	1.7	0.8	0.8	0.0
82.5°	4.2	4.2	4.2	3.3	3.3	3.3	2.5	1.7	0.8	0.0	0.0
85°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.7	0.8	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.7	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)